

SEQUENCE LISTING

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<120> MODIFIED DEACETOXYCEPHALOSPORIN C SYNTHASE (DAOCS) AND
X-RAY STRUCTURE

<130> 08004624

<140> PCT/GB98/03860

<141> 1998-12-24

<150> 9727370.0

<151> 1997-12-24

<150> 9813644.3

<151> 1998-06-24

<160> 1

<170> PatentIn Ver. 2.1

<210> 1

<211> 311

<212> PRT

<213> Streptomyces clavuligerus

<400> 1

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Leu His Gln Asp Glu Phe Arg Arg Cys Leu Arg Asp Lys Gly Leu Phe
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Tyr Leu Thr Asp Cys Gly Leu Thr Asp Thr Glu Leu Lys Ser Ala Lys
35 40 45

Asp Leu Val Ile Asp Phe Phe Glu His Gly Ser Glu Ala Glu Lys Arg
50 55 60

Ala Val Thr Ser Pro Val Pro Thr Met Arg Arg Gly Phe Thr Gly Leu

65

70

75

80

Glu Ser Glu Ser Thr Ala Gln Ile Thr Asn Thr Gly Ser Tyr Ser Asp
85 90 95

Tyr Ser Met Cys Tyr Ser Met Gly Thr Ala Asp Asn Leu Phe Pro Ser
100 105 110

Gly Asp Phe Gly Arg Ile Trp Thr Gln Tyr Phe Asp Arg Gln Tyr Thr
115 120 125

Ala Ser Arg Ala Val Ala Arg Glu Val Leu Arg Ala Thr Gly Thr Glu
130 135 140

Pro Asp Gly Gly Val Glu Ala Phe Leu Asp Cys Glu Pro Leu Leu Arg
145 150 155 160

Phe Arg Tyr Phe Pro Gln Val Pro Glu His Arg Ser Ala Glu Glu Gln
165 170 175

Pro Leu Arg Met Ala Pro His Tyr Asp Leu Ser Met Val Thr Leu Ile
180 185 190

Gln Gln Thr Pro Cys Ala Asn Gly Phe Val Ser Leu Gln Ala Glu Val
195 200 205

Gly Gly Ala Phe Thr Asp Leu Pro Tyr Arg Pro Asp Ala Val Leu Val
210 215 220

Phe Cys Gly Ala Ile Ala Thr Leu Val Thr Gly Gly Gln Val Lys Ala
225 230 235 240

Pro Arg His His Val Ala Ala Pro Arg Arg Asp Gln Ile Ala Gly Ser
245 250 255

Ser Arg Thr Ser Ser Val Phe Phe Leu Arg Pro Asn Ala Asp Phe Thr
260 265 270

Phe Ser Val Pro Leu Ala Arg Glu Cys Gly Phe Asp Val Ser Leu Asp
275 280 285

Gly Glu Thr Ala Thr Phe Gln Asp Trp Ile Gly Gly Asn Tyr Val Asn
290 295 300

Ile Arg Arg Thr Ser Lys Ala
305 310